



**TOWN OF STRATFORD
PURCHASING DEPARTMENT
STRATFORD, CONNECTICUT**

BID No. 2014-014

Issued : February 27, 2014

Subject : Fire Hose

The Town of Stratford through the Office of the Purchasing Agent, will receive SEALED BIDS for furnishing the equipment described in the accompanying specifications, in accordance with the instructions, conditions and reservations that follow:

A. CLOSING DATE:

Bids will be received until 3:00 pm March 17, 2014, at which time they will be publicly opened and read. All bidders are invited to attend this public opening, which will be held immediately following the closing time specified above, in the Office of the Purchasing Agent, Room 202, Town Hall, 2725 Main Street, Stratford, CT 06615.

Any bid may be withdrawn prior to the above-scheduled time for receiving bids or authorized postponement thereof. Any bids received after the date and time specified shall NOT be considered. No bidder may withdraw a bid within 45 days after the actual opening thereof.

B. INSTRUCTIONS:

Bid proposals are to be submitted (**TWO COPIES**) in a sealed envelope and clearly marked with the bid number and description on the outside of the envelope, including all outer packaging (DHL, FedEx, UPS, etc).

Bids must be delivered to:

Purchasing Department
Stratford Town Hall – Rm 202
2725 Main Street
Stratford, CT 06615

C. CONDITIONS:

Bid Surety:

A bid surety is not required.

Payment: Final payment will be made upon the acceptance of the completed work by an authorized representative of the Town of Stratford. NO partial payments will be made. Invoices covering the work specified herein should be forwarded to the Purchasing Department upon completion of the project.

Taxes: The Town of Stratford is exempt from all State and Federal taxes. Do not include these amounts in your quotation.

Addendums: All addendums will be posted on the town website, www.townofstratford.com. It is the responsibility of the bidder to check the website for any addendums before submitting their bid.

F.O.B. Destination: All prices quoted must be net delivered to destination.

Conflict of Interest: No public official or employee shall, while serving as such, have any financial interest or engage in any business, employment, transaction or professional activity or incur any obligation of any nature which is in substantial conflict with the proper discharge of his/her duties or employment in the public interest.

D. RESERVATIONS:

The Town of Stratford may consider informal any bid not prepared and submitted to the Town in accordance with the provisions herein stated. The Town of Stratford reserves the right to reject any or all bids or parts of bids; to waive defects in same bids; or to accept any bid or part thereof deemed to be in the best interests of the Town of Stratford.

Supply detailed descriptions and specifications of all items..

5 inch Fire Hose Specifications Scope

Hose manufactured to this specification shall be of superior quality and workmanship. This heavy-duty double jacket fire hose shall be designed to withstand the rough usage of front line fire fighting.

Construction and Features

JACKETS

1. The hose shall be of double jacket construction.
2. The inner jacket shall be made with high tenacity filament polyester yarn in both the warp and weft directions to provide maximum strength.
3. The outer jacket shall be made with virgin spun polyester warp yarn and a filament polyester weft yarn. Hose made using nylon or other materials shall not be considered as meeting this specification. The hose number and date of manufacture will be stenciled 12" from each coupling.
4. The hose outer jacket shall have a minimum filler yarn of 11.3 per inch (445 per meter).
5. The hose shall be resistant to most chemicals and petrol products, rot & mildew, hydrolysis, and resist deterioration due to exposure to UV rays and ozone.

PERFORMANCE

1. The hose shall have minimum service, test and burst pressures as specified in the Technical Chart. Hose which does not meet these minimum pressures, shall not be considered as meeting this specification.
2. The hose shall have a maximum flow with minimum friction loss.
3. The hose jacket shall be highly abrasion resistant.
4. There shall be no defects, dirt, knots, lumps or other irregularities affecting the performance of the hose.
5. The hose must resist kinking and remain flexible to -65 degrees Fahrenheit or (-55 °C)

LINING

1. The hose lining shall have excellent resistance to most chemicals, petrol products, ozone and U.V.
2. The hose lining shall be capable of being approved for potable water, when so ordered.

3. The thermoplastic lining material used for this specification shall have a flawless record in the fire hose industry.
4. The hose jacket shall be lined by the patented Metrex method. The lining material in its molten state shall fill the corrugation of the weave fusing to every warp and filler thread and provide a very smooth and low friction waterway. No adhesive or backing material shall be used to bond the lining and it shall yield maximum flow with minimum friction loss. A hose manufactured by inverting an exterior coated hose shall not be considered as meeting this specification. Hose manufactured with the use of adhesives or backing for bonding the liner, or hose made with rubber liners shall not be considered as meeting this specification.

Standards

Fire hose manufactured to this specification shall meet and exceed all performance requirements of NFPA 1961, Underwriter.s Laboratories & Factor Mutual.

Technical Chart for LDH Hose

Hose Size	Bowl Size	Weight 50. Un-coupled	Coil Diameter
5.00 in.	5 3/8 in.	43.0 lbs	17.0 in.
Service Pressure	Proof Pressure	Burst	
300 psi	600 psi	900 psi	

2 1/2" Fire Hose Specifications Scope

Hose manufactured to this specification shall be of superior quality and workmanship. This heavy-duty double jacket fire hose shall be designed to withstand the rough usage of front line fire fighting.

Construction and Features 2 1/2 Fire Hose

JACKETS:

1. The hose shall be of double jacket construction.
2. The inner alone shall be a NFPA compliant Attack hose, made with 100% filament polyester wrap and weft yarn.
3. The outer jacket shall be made with virgin spun polyester warp yarn and a minimum of 10 filament polyester weft yarn picks per inch (394 per meter). Hose made using nylon or other materials shall not be considered as meeting this specification.
4. The hose outer jacket shall have two 5/8" (16 mm) wide red strips, 1/4" (6 mm) apart, running the full length of the jacket.
5. The outer jacket shall be impregnated in one of the standard NFPA colors with high performance polymeric dispersion. The hose number and date of manufacture will be stenciled 12" from each coupling.

LINING:

1. The lining (waterway) must be made from polyurethane and must be applied using a fused process that welds the polyurethane directly to the textile while the hose is being woven, without the use of adhesives or hot melt.
2. The fused lining process must create a virtually inseparable unit without the use of adhesives, yielding an extremely low friction (pressure) loss by filling in the corrugations of the weave, creating an ultra thin and smooth waterway.
3. Fire hose made using adhesives of any type do not meet this specification.
4. The lining shall be approved for use with potable water.

ADHESION:

1. The adhesion shall be such that the rate of separation of a 1-1/2" / 38mm strip of polyurethane, transversely cut, shall not be greater than 1/4" / 6mm per minute under a weight of 12 lbs / 5.5 kg.

KINK TEST:

1. HIGH PRESSURE: A full length shall withstand, without damage, a hydrostatic pressure of 600 psi / 4140 kPa while kinked.
2. LOW PRESSURE: The hose shall not kink when formed into a 25" / 64cm wide loop (outside measure) at 60 psi / 415 kPa internal water pressure.

COLD TEMPERATURE FLEXIBILITY:

1. The hose must remain flexible to -65°F (-55°C)

WEIGHT:

1. Each length of fire hose shall not weigh more than indicated in the specification table.

COUPLING SPECIFICATIONS:

1. The female coupling shall have at least 3 reflective arrows, in order to be visible from any position.
2. The reflective arrows must be engraved into and below the surface of the coupling to resist abrasion.
3. The arrows must point in the direction of the water source for a standard hose connection.

MANUFACTURE:

1. Both hose and couplings must be manufactured in North America and be NAFTA compliant.

WARRANTY:

1. The fire hose shall have a "Two Year All Hazards Warranty"

PERFORMANCE:

1. The hose shall have minimum service, test and burst pressures as specified in the Technical Chart. Hose, which does not meet these minimum pressures, shall not be considered as meeting this specification.
2. The hose shall have a maximum flow with minimum friction loss.
3. The hose jacket shall be highly abrasion resistant.
4. There shall be no defects, dirt, knots, lumps or other irregularities affecting the performance of the hose.

STANDARDS:

Fire hose manufactured to this specification shall meet and exceed all performance requirements of NFPA 1961, Underwriters Laboratories & Factor Mutual.

1. Standard with Permatek HP Treatment in (9) nine color options
2. 2 1/2 inch fire attack hose in 50 ft lengths with one NST threaded male connection and one NST threaded female connection.

TECHNICAL CHART For 2 1/2" Hose

Hose Size	Bowl Size	Weight 50' Un-coupled	Coil Diameter
2 1/2 in.	3 in.	21 lbs	19.0 in.
Service Pressure	Proof Pressure	Burst	
400 psi	800 psi	1450 psi	

1-3/4" Fire Hose
Specifications
Scope

Hose manufactured to this specification shall be of superior quality and workmanship. This heavy-duty double jacket fire hose shall be designed to withstand the rough usage of front line fire fighting.

Construction and Features 1 3/4. Fire Hose

JACKETS:

1. The hose shall be of double jacket construction.
2. The inner alone shall be a NFPA compliant Attack hose, made with 100% filament polyester wrap and weft yarn.
3. The outer jacket shall be made with virgin spun polyester warp yarn and a minimum of 10 filament polyester weft yarn picks per inch (394 per meter). Hose made using nylon or other materials shall not be considered as meeting this specification.
4. The hose outer jacket shall have two 5/8" (16 mm) wide red strips, 1/4" (6 mm) apart, running the full length of the jacket.
5. The outer jacket shall be impregnated in one of the standard NFPA colors with high performance polymeric dispersion. The hose number and date of manufacture will be stenciled 12" from each coupling.

LINING:

1. The lining (waterway) must be made from polyurethane and must be applied using a fused process that welds the polyurethane directly to the textile while the hose is being woven, without the use of adhesives or hot melt.
2. The fused lining process must create a virtually inseparable unit without the use of adhesives, yielding an extremely low friction (pressure) loss by filling in the corrugations of the weave, creating an ultra thin and smooth waterway.
3. Fire hose made using adhesives of any type do not meet this specification.
4. The lining shall be approved for use with potable water.

ADHESION:

1. The adhesion shall be such that the rate of separation of a 1-1/2" / 38mm strip of polyurethane, transversely cut, shall not be greater than 1/4" / 6mm per minute under a weight of 12 lbs / 5.5 kg.

KINK TEST:

1. HIGH PRESSURE: A full length shall withstand, without damage, a hydrostatic pressure of 600 psi / 4140 kPa while kinked.
2. LOW PRESSURE: The hose shall not kink when formed into a 25" / 64cm wide loop (outside measure) at 60 psi / 415 kPa internal water pressure.

COLD TEMPERATURE FLEXIBILITY:

1. The hose must remain flexible to -65°F (-55°C)

WEIGHT:

1. Each length of fire hose shall not weigh more than indicated in the specification table.

COUPLING SPECIFICATIONS:

1. The female coupling shall have at least 3 reflective arrows, in order to be visible from any position.
2. The reflective arrows must be engraved into and below the surface of the coupling to resist abrasion.
3. The arrows must point in the direction of the water source for a standard hose connection.

MANUFACTURE:

1. Both hose and couplings must be manufactured in North America and be NAFTA compliant.

WARRANTY:

1. The fire hose shall have a "Two Year All Hazards Warranty"

PERFORMANCE:

1. The hose shall have minimum service, test and burst pressures as specified in the Technical Chart. Hose, which does not meet these minimum pressures, shall not be considered as meeting this specification.
2. The hose shall have a maximum flow with minimum friction loss.
3. The hose jacket shall be highly abrasion resistant.
4. There shall be no defects, dirt, knots, lumps or other irregularities affecting the performance of the hose.

STANDARDS:

Fire hose manufactured to this specification shall meet and exceed all performance requirements of NFPA 1961, Underwriters Laboratories & Factor Mutual.

1. Standard with Permatek HP Treatment in (9) nine color options
2. 1 ¾ inch fire attack hose in 50 ft lengths with one NST threaded male connection and one NST threaded female connection.

TECHNICAL CHART For 1-3/4" Hose

Hose Size	Bowl Size	Weight 50' Un-coupled	Coil Diameter
1.75 in.	2 1/8 in.	14.8 lbs	17.0 in.
Service Pressure	Proof Pressure	Burst	
400 psi	800 psi	1500 psi	

For more information contact Asst Chief Lance Edwards at 203-385-4072

BID # 2014-014 DESCRIPTION: Fire Hose
BID SHEET

The Town of Stratford Fire Department is interested in purchasing 5 inch LDH supply hose in 100 ft lengths with storz connections.

Hose make/model: _____

Include a detailed description of your specifications as they match the specifications in the bid.

Unit price for 100 feet of hose: _____

Warranty: _____ years

The Town of Stratford Fire Department is interested in purchasing 2 ½ inch fire attack hose in 50 ft lengths with one NST threaded male connection and one NST threaded female connection.

Hose make/model: _____

Include a detailed description of your specifications as they match the specifications in the bid.

Unit price for 50 feet of hose: _____

Warranty: _____ years

The Town of Stratford Fire Department is interested in purchasing
1 ¾ inch fire attack hose in 50 ft lengths with one NST threaded male connection and
one NST threaded female connection.

Hose make/model: _____

Include a detailed description of your specifications as they match the
specifications in the bid.

Unit price for 50 feet of hose: _____

Warranty: _____ years

Bidder's Name : _____

Address : _____

Phone : _____ Date : _____

Authorized Signature : _____

Printed Name :

Title : _____

Give three (3) references in other municipalities, including contact and phone:
